

## Datasheet: MCA2235FB

|                      |                           |
|----------------------|---------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD206:FITC |
| <b>Specificity:</b>  | CD206                     |
| <b>Other names:</b>  | MANNOSE RECEPTOR C TYPE 1 |
| <b>Format:</b>       | FITC                      |
| <b>Product Type:</b> | Monoclonal Antibody       |
| <b>Clone:</b>        | MR5D3                     |
| <b>Isotype:</b>      | IgG2a                     |
| <b>Quantity:</b>     | 0.5 mg                    |

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                    | Yes | No | Not Determined | Suggested Dilution |
|--------------------|-----|----|----------------|--------------------|
| Flow Cytometry (1) | ▪   |    |                | 1/10               |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) CD206 is expressed weakly at the cell surface. Staining may be increased following membrane permeabilisation. We recommend the use of Leucoperm (Product Code [BUF09](#)) for this purpose.**

| <b>Target Species</b>  | Mouse  |                   |                     |                   |      |     |     |
|------------------------|--|-------------------|---------------------|-------------------|------|-----|-----|
| <b>Product Form</b>    | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid   |                   |                     |                   |      |     |     |
| <b>Max Ex/Em</b>       | <table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table> | Fluorophore       | Excitation Max (nm) | Emission Max (nm) | FITC | 490 | 525 |
| Fluorophore            | Excitation Max (nm)  | Emission Max (nm) |                     |                   |      |     |     |
| FITC                   | 490  | 525               |                     |                   |      |     |     |
| <b>Preparation</b>     | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant  |                   |                     |                   |      |     |     |
| <b>Buffer Solution</b> | Phosphate buffered saline  |                   |                     |                   |      |     |     |
| <b>Preservative</b>    | 0.09% sodium azide (NaN <sub>3</sub> )   |                   |                     |                   |      |     |     |
| <b>Stabilisers</b>     | 1% bovine serum albumin  |                   |                     |                   |      |     |     |

|                                       |   |
|---------------------------------------|---|
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.5 mg/ml   |
| <b>Immunogen</b>                      | Chimaeric CRD4-7-Fc protein   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">Q61830</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">17533</a> Mrc1    <a href="#">Related reagents</a></p>   |
| <b>RRID</b>                           | AB_324389   |
| <b>Fusion Partners</b>                | Spleen cells from immunized Fischer rats were fused with cells of the Y3 myeloma cell line  |
| <b>Specificity</b>                    | <p><b>Rat anti Mouse CD206 antibody, clone MR5D3</b> recognizes the mouse mannose receptor, a ~175 kDa type 1 membrane glycoprotein that is also known as CD206. CD206 is expressed on most tissue macrophages, certain endothelial cells and <i>in vitro</i> derived dendritic cells (<a href="#">Zamze et al. 2002</a>).</p> <p>The mannose receptor, CD206, is composed of a N-terminal cysteine-rich domain, a fibronectin type II domain, eight tandemly arranged C-type lectin domains (CTLD), a transmembrane domain, and a cytoplasmic domain. The terminal cysteine-rich domain binds sulfated sugars, and the CTLD recognizes carbohydrates terminating in mannose, fucose and N-acetylglucosamine, all sugars found on microorganisms and on some endogenous proteins (<a href="#">Su et al. 2005</a>).</p> <p>Rat anti mouse CD206 antibody, clone MR5D3 has been reported to be non-inhibitory for the binding of the mannose receptor to carbohydrate ligands (<a href="#">Zamze et al. 2002</a>). Clone MR5D3 has also been shown to work in western blotting (<a href="#">Martinez-Pomares et al. 2003</a> and <a href="#">Su et al. 2005</a>).</p> |
| <b>Flow Cytometry</b>                 | Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ( <a href="#">BUF041A/BUF041B</a> ).  |
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|--------------------------|---|
| <b>Storage</b>           | This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.<br><br>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. |
| <b>Guarantee</b>         | 12 months from date of despatch   |
| <b>Health And Safety</b> | Material Safety Datasheet documentation #10041 available at:  |

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**Information** <https://www.bio-rad-antibodies.com/SDS/MCA2235FB>  
10041

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA1212F\)](#)

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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